REMARKS

Prior to this Reply, Claims 1-37 were pending. Through this Reply, Claims 1-37 have been cancelled without prejudice to, or disclaimer of, the subject matter contained therein. In addition, Claims 38-137 have been added. Accordingly, Claims 38-137 are now at issue in the present case.

I. Claim Rejections

The Examiner rejected Claims 1, 2 and 6-37 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,751,046 to Szita et al. (hereinafter "Szita et al.").

The Examiner also rejected Claim 3 under 35 U.S.C. § 103(a) as being unpatentable over Szita et al. in view of U.S. Patent No. 6,519,107 to Ehrlich et al. (hereinafter "Ehrlich et al.")

In response, in order to expedite allowance of the present application, Applicants have cancelled Claims 1-37 without prejudice to, or disclaimer of, the subject matter contained therein.

II. New Claims

Claims 38-137 have been added. No new matter has been added.

Claim 38 recites "generating a PES using the transducer to read the reference pattern during a revolution of the disk" then "self-writing a servo burst on the disk using the transducer during the revolution of the disk, wherein the PES indicates RRO for the servo burst" and "calculating an ERC value for the servo burst using the PES." Szita et al. fails to teach or suggest this approach. Instead, Szita et al. provides a ruler on disk 302, then determines a correction factor for the ruler, then writes a final servo pattern on disk 302, then reads the final

servo pattern to generate PES 1306, and then adapts the correction factor for the final servo pattern using PES 1306. Thus, Szita et al. says nothing about generating PES 1306 for the final servo pattern during a revolution of disk 302 and then writing the final servo pattern during the revolution of disk 302 and adapting the correction factor for the final servo pattern using PES 1306. Claims 39-47 depend from Claim 38 and are believed to be allowable for at least the same reasons as Claim 38.

Claim 48 is believed to be allowable for at least the same reasons as Claim 38, and Claims 49-57 depend from Claim 48 and are believed to be allowable for at least the same reasons as Claim 48.

Claim 58 recites "self-writing A and B servo bursts on the disk using the transducer, wherein the servo bursts are radially offset, circumferentially staggered servo bursts that form an A, B servo burst pair" and "generating a PES using the transducer to read the reference pattern after self-writing the A servo burst and before self-writing the B servo burst, wherein the PES indicates RRO for the B servo burst" and "calculating an ERC value for the B servo burst using the PES." Szita et al. fails to teach or suggest generating PES 1306 for an A, B servo burst pair in the final servo pattern after writing the A servo burst and before writing the B servo burst. Instead, Szita et al. writes the entire final servo pattern and then generates PES 1306 to adapt the correction factor for the final servo pattern. Claims 59-67 depend from Claim 58 and are believed to be allowable for at least the same reasons as Claim 58.

Claim 68 is believed to be allowable for at least the same reasons as Claim 58, and Claims 69-77 depend from Claim 68 and are believed to be allowable for at least the same reasons as Claim 68.

Claim 78 is believed to be allowable for at least the same reasons as Claims 38 and 58, and Claims 79-87 depend from Claim 78 and are believed to be allowable for at least the same reasons as Claim 78.

Claim 88 is believed to be allowable for at least the same reasons as Claim 38, and Claims 89-97 depend from Claim 88 and are believed to be allowable for at least the same reasons as Claim 88.

Claim 98 is believed to be allowable for at least the same reasons as Claim 58, and Claims 99-107 depend from Claim 98 and are believed to be allowable for at least the same reasons as Claim 98.

Claim 108 is believed to be allowable for at least the same reasons as Claim 38, and Claims 109-117 depend from Claim 108 and are believed to be allowable for at least the same reasons as Claim 108.

Claim 118 is believed to be allowable for at least the same reasons as Claim 58, and Claims 119-127 depend from Claim 118 and are believed to be allowable for at least the same reasons as Claim 118.

Claim 128 recites "a controller that (1) generates a position error signal (PES) using the transducer to read the reference pattern while the transducer is at a radial position, (2) self-writes a servo burst on the disk using the transducer while using the PES to position the transducer at the radial position, wherein the PES indicates RRO for the servo burst, (3) calculates an ERC value for the servo burst using the PES." Szita et al. fails to teach or suggest that controller 304 writes the final servo pattern on disk 302 while using PES 1306 to position recording head 310. Instead, PES 1306 is generated after the final servo pattern is written on disk 302. Claims 129-

137 depend from Claim 128 and are believed to be allowable for at least the same reasons as Claim 128.

III. Amendments to Specification

A substitute specification without claims (and a marked-up version thereof) is provided herein under 37 C.F.R. 1.125 to improve clarity of the specification. No new matter has been added.

Applicants respectfully request that the substitute specification be entered.

IV. Amendments to Drawings

Applicants are submitting replacement Figures 1, 2, 3, 4, 5A-1, 5A-2, 5B-1 and 5B-2 (contained on Replacement Sheets 1-7) to improve the quality of the drawings.

Figs. 1 and 2 have not been amended, but are being submitted so that a complete set of drawings are provided.

Figure 3 has been modified to clarify the cross-track (radial) direction and the down-track (circumferential) direction, and to label the track centerlines 132a.

Figure 4 has been amended at steps 406 and 416 to delete "while writing C," at steps 408 and 430 to delete "while writing B," at steps 414 and 424 to delete "while writing A" and at steps 422 and 432 to delete "while writing D."

Figures 5A-1 and 5A-2 have been amended to change all instances of "data trk" to "track" and to change all instances of "trk mode" to "track mode."

Figures 5B-1 and 5B-2 have been amended to change all instances of "data trk" to "track" and to change all instances of "tm" to "track mode." In addition, Figure 5B-1 has been

amended to change "nom reader" to "transducer," and Figure 5B-2 has been amended at steps 406 and 416 to delete "while writing C," at steps 408 and 430 to delete "while writing B," at steps 414 and 424 to delete "while writing A" and at steps 422 and 432 to delete "while writing D."

No new matter has been added. Figures 1-4, 5A-1, 5A-2, 5B-1 and 5B-2 constitute all of the drawings of the application.

V. Additional Claim Fees

In determining whether additional claim fees are due, reference is made to the Fee Calculation Table (below).

Fee Calculation Table

	Claims Remaining After Amendment		Highest Number Previously Paid For	Present Extra	Rate	Additional Fee
Total (37 CFR 1.16(c))	100	Minus	37	= 63	x $50 =	$3150.00
Independent (37 CFR 1.16(b))	10	Minus	5	= 5	x $200=	$1000.00

As set forth in the Fee Calculation Table (above), Applicants previously paid claim fees for thirty-seven (37) total claims and for five (5) independent claims. Therefore, Applicants hereby authorize the Commissioner to charge the credit card identified on the enclosed Form PTO-2038 in the amount of $4150.00 for the presentation of sixty-three (63) total claims over thirty-seven (37) and for the presentation of five (5) independent claims over five (5). Although Applicants believe that no other fees are due, the Commissioner is hereby authorized to charge Deposit Account No. 50-2198 for any fee deficiencies associated with filing this paper.

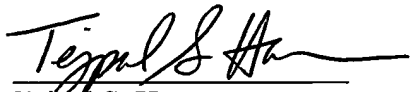
VI. Conclusion

It is believed that the above comments establish patentability. Applicants do not necessarily accede to the assertions and statements in the Office Action, whether or not expressly addressed.

Applicants believe that the application appears to be in form for allowance. Accordingly, reconsideration and allowance thereof is respectfully requested.

The Examiner is invited to contact the undersigned at the below-listed telephone number regarding any matters relating to the present application.

Respectfully submitted,



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